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4. During the 12th, 13th and 14th weeks, the whole class covered the following subjects:

(*u*) Finding compass error and use of Napier's diagram.
(*v*) Elementary practical compensation of the compass.
(*w*) Lines of position and chart intersections.
(*x*) Naval regulations and instructions on navigational subjects.

5. During the remainder of the time available, separate courses were again pursued by the two divisions of the class:

1st Division (advanced portion of the class).
(*y*) Method of St. Hilaire.
(*z*) Day's work.
2d Division (backward portion of the class).
(*q*), (*s*), (*t*) and (*y*).

6. All of the time assigned to Navigation on board the U. S. S. Dubuque was devoted to piloting, use of charts, use of compass, sextant, etc., and much of the regular section room time was devoted to practical instruction in use of charts, noon "tick," chronometers, barometers, compass, pelorus, three-arm protractors, tide tables, deviascope, etc.

NOTES AND NEWS.

EDITED BY D. A. ROTHROCK, Indiana University, Bloomington, Indiana.

Dr. S. D. ZELDIN of the College of Hawaii has been appointed professor of mathematics in Olivet College.

Professor M. E. GRABER has been elected to the chair of mathematics in Heidelberg University, Tiffin, Ohio.

Professor C. A. BARNHART, formerly of Carthage College, has been appointed professor of mathematics in the University of New Mexico.

Dr. W. O. MENDENHALL, professor of mathematics in Earlham College, has been elected to the presidency of Friends University, Wichita, Kansas.

Assistant professor C. W. WATKEYS has been advanced to a professorship of mathematics in the University of Rochester.

Professor ARNOLD DRESDEN of the University of Wisconsin sailed for France in September for service in the Red Cross.

Dr. F. R. MORRIS has been appointed instructor in mathematics at the University of California.

Mr. H. LYLE SMITH, instructor in mathematics at Princeton University for the past two years, is now in the office of Major F. R. MOULTON of the Ordnance Department at Washington.

Professor S. L. BOOTHROYD, of the department of mathematics and astronomy, University of Washington, took an active part in the Crocker expedition for observation on the solar eclipse the past summer.

Dr. F. D. MURNAGHAN, of Rice Institute, has been appointed associate in applied mathematics at Johns Hopkins University.

Dr. ANNA PELL, associate professor of mathematics at Mt. Holyoke College, has accepted an associate professorship in mathematics at Bryn Mawr College.

Mr. C. A. HUTCHINSON, instructor in mathematics at Wittenberg College, Springfield, Ohio, has accepted an instructorship in mathematics in the College of Engineering of the University of Colorado.

Dr. THOMAS BUCK, assistant professor of mathematics at the University of California, has been commissioned a first lieutenant in the ordnance department of the army, and will be located in Washington doing research work in ballistics.

At the University of Minnesota, Associate Professor R. R. SHUMWAY has been appointed assistant dean of the College of Science, Literature and Arts; and Associate Professor W. H. BUSSEY has been appointed chairman of the department of mathematics for the year 1918–19, and also executive secretary of the School of Chemistry.

The Library Sub-Committee of the Mathematical Association of England has decided to issue a suggestive list of books suitable for mathematical libraries of secondary schools. It is proposed to divide the list into two parts, a Teachers' Library, and a Pupils' Library. A preliminary list of books on algebra and analysis, containing one hundred and sixteen titles, has been issued; it appears as a supplement to the May (1918) number of *The Mathematical Gazette*.

In the recently announced untimely death of Professor MAXIME BÔCHER American mathematicians have lost from their number one of an eminent group of men who have been in the center of American mathematical activity for a quarter century. The most noteworthy recent publication by Professor BÔCHER is his *Leçons sur les Méthodes de Sturm*, a volume which appeared last year as a monograph in the notable series edited by ÉMILE BOREL. It contains an exposition of the author's lectures delivered at the Sorbonne from November, 1913, to January, 1914. It deals with the methods of Sturm in the theory of linear differential equations and their modern developments. In it the author gives an introductory exposition of the range of ideas which have been in the center of his research activity for about twenty-five years; he includes some new results along with his account of previous work of his own and others. This book, together with Professor BÔCHER's address before the fifth international congress of mathematicians at Cambridge, affords the reader a valuable and convenient means of initiating himself into the principal contributions of their author to mathematical science. The writings of few men afford a more suitable introduction to the life-work of their author. Somewhat outside of the main current of ideas represented in the *Méthodes de Sturm* but nevertheless connected with them is the first work through which Professor BÔCHER attracted attention, namely, his *Reihenentwickelungen der Potentialtheorie.* This appeared first in 1891 as a Göttingen dissertation of seventy pages and was later expanded into a book of 266 pages and published in 1894. Not long after the appearance of this book Professor BÔCHER began to publish his contributions in connection with the work of Sturm. Since that time his main researches have had to do with the interests thus initiated. While he has done work in other directions, it is in this and in the book of 1894 that one must seek his more important contributions.